

US EPA ARCHIVE DOCUMENT

240822

Record No.

Review No.

2

128804

Shaughnessey No.

EEB REVIEW

DATE: IN March 3, 1989 OUT March 28, 1989

FILE OR REG. NO. 89-FL-20

PETITION OR EXP. NO. \_\_\_\_\_

DATE OF SUBMISSION January 24, 1989

DATE RECEIVED BY EFED March 2, 1989

RD REQUESTED COMPLETION DATA March 16, 1989

EEB ESTIMATED COMPLETION DATE March 16, 1989

RD ACTION CODE/TYPE OF REVIEW 510

TYPE PRODUCTS(S): I, D, H, F, N, R, S Acaracide (miticide)

MRID NO(S). \_\_\_\_\_

PRODUCT MANAGER NO. D. Stubbs (41)

PRODUCT NAME(S) Agri-Mek 0.15 EC, Avermectin

COMPANY NAME State of Florida

SUBMISSION PURPOSE Section 18 for use on strawberries

SHAUGHNESSEY NO.

CHEMICAL AND FORMULATION

% A.I.

128804

Avermectin

15%

## ECOLOGICAL EFFECTS BRANCH REVIEW

### Emergency Use Application (Section 18)

#### Avermectin

#### Agri-Mek 15 EC

### 100. REASON FOR APPLICATION:

#### 100.1 Nature and Scope of the Emergency:

*Applicant and Request-* Doyle Conner, Commissioner  
Florida Department of Agriculture and Consumer Services  
The Capitol  
Tallahassee 32301

*Description of the Pesticide Problem-* A Section 18 permit is requested use Agri-Mek 15 EC to control spider mites on strawberries in Florida. Registered pesticides for control of mites on strawberries in Florida have either been banned or lack efficacy. The spider mite populations have increased because of warm weather.

*Alternatives-* "Of the ten products currently registered for this use, lack of efficacy eliminates five: malathion, diazinon, naled, methyl parathion and parathion. ... Of the other five products only two are used in any significant quantities: fenbutation-oxide and propargite. Each of these compounds are limited in efficacy under high pest pressure: fenbutation-oxide because of the 8 lbs. of ai per acre limitation per crop season and propargite use limitations during harvest which preclude effective mite control ... Mevinphos and dicofol success is limited by resistant populations ... Safer soap has resulted in crop phytotoxicity".

#### 100.2 Target Organisms:

Two spotted spider mite *Tetranychus urticae*

#### 100.3 Date and Duration of the Treatment:

The permit would start when EPA grants it and continue until December 31, 1989.

#### 100.4 Application Methods, Directions and Rates:

Spraying would begin when the five mites per trifoliated leaf level is reached. Spraying would be done with conventional ground equipment. "Applications at 0.02 lb ai can be made at 7 day intervals not to exceed a maximum of 0.08 lb ai per acre growing season (64 fl oz pr acre per season)". It will not be used during the three days before harvest.

**102.2 Adequacy of Labeling:**

The labeling incorporates recent changes and is sufficient.

**103. CONCLUSIONS:**

At this time we believe that the proposed emergency use of Agri-Mek 0.15 EC may result in acute and chronic effects to nontarget species. Due to insufficient information, EEB is not able to do a complete a hazard evaluation for this §18 request until these trials have been completed and evaluated.

**104. REVIEWED BY:**

James J. Goodyear  
Biologist, Section 1  
Ecological Effects Branch  
Environmental Fate and Effects Division (H7507C)

Signature: James J. Goodyear  
Date: March 28, 1989

**105. APPROVED BY:**

Raymond W. Matheny  
Head, Section 1  
Ecological Effects Branch  
Environmental Fate and Effects Division (H7507C)

Signature: Raymond W. Matheny  
Date: 3/28/89

James W. Akerman  
Branch Chief  
Ecological Effects Branch  
Environmental Fate and Effects Division (H7507C)

Signature: James W. Akerman  
Date: 3/31/89